

FREEZE MACHINE

DATA RECORDER, CSM compatible types are an CSN-1151 to sheaper and installing a passes code?

ADMATE 2000, Multiple caseable loading difficultual? Direct and adjust your CSM consortius and an experience with the land adjustment 200, 50 to 100, 50 to 100



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you can access geoPAINT, a full-testured marks word processor and Desk Appearantes

LC-10 from sit්ග

VAR PART

FEATURES



١	 Solid Gold The administrate printer connection for Commodore?
ı	Printer Principles Eric Dople takes the ball by the her dispels a few runnurs about intert
	Fred Goes Dolly Brighton up your image with these graphics packages
	Star LC 10 Printer

REGULARS

Data Statements
Soop atrant of what

Garness Update
This mean's wards

Relative File Pri

First Steps

Instant Music

Micro Mad
Have a ray and com

Making Music





* Pandane VOLUME 4 NUMBER 10 * May I Internets * Construction a Combile * Competition * Skufor * Pacland * Sufference for Sale * Listing * Backbaye 90 * Handy Input Routines * Cassette Inlay Printer

* CP/M Centronics Interface

DATA STATEMENTS

The Race is On!

Scott to market Citizen's Idc's and fdd's

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Vixen: Foxy lady of





DATA STATEMENTS

Thief of

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Mandarin Extends their Umbrella

Chinese Inspiration for the press last match. The occasion? The signing of two sees submare houses, the Rus of Matchester and Janux of Paris, though got seat sharing Mandatah substella to free.

Red Rat are being halled as Brisish brightest software houses, saids many false for the Atani ST to their cools, Arsiga games are non-high feel cools, Arsiga games are non-high

ourselves as the leading extention libed* and Chris Payne, deep trying not to beek slip, while the in oriental garby be-decopy moss was a dead give-away.

**Teachdoo: Elite go Beyond the Ice Palace

Only time will self whether this north up another his for Ede.
Tourstille:

Journal of the Control of the Contr

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down toner carridges. Durby
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Ery

DATA STATEMENTS

Gremlin Get their & kates On!

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MP to open Epson factory

of Trans's arm in Batterwood, Tellor

we printer factory, plays best to a sixually cheming out 30 his immunicated affair. Nicholan day MP, Scottary of State for the sixualistical joins for Epoca mental for the ribbon statistic EnteroPhy Left Devices.

Microprose team up with Cosmi

lose cut on a nice little carmer when inp US publisher Come cutered into a joint venture with Microproce. Misraproce will be responsible for marketing Cosmit Intent projects. Defoors 5, The President is Missing and in the future. Super Huey III, in Durope and Ameralia.

> Sharrimhire GLS 8214. Tel: 19336.

YER RS2

RE ELECTRONIC RESEARCH for the answer to many of on some first the answer to many of one for the first three first

As BASII become independ as the instander for entitle communication, a receiver interpreted difficultily by illimited the single control of the control of t

numbers for builtedin boards as soil as information on histoware connections. A stephone call to VER is all that is necessary to alleviate any persistent problems, induced they seem to welcome prefilers primated Good lack to YER!

Touchiline:

Fishergate Course, & Fisher FOT 4.4.8. Tel: 0904 \$197.



General Manager of Virgin Gome "Obviously I'm delighted with th more," he said, "if's a great company with a great future." Nothing Ik

ACTS.

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Games Update



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Handy Input Routines

Have you ever wondered how you could make your Basic programs more idiot-proof and more professionally presented? Here's your chance with two

routines - both written in straightforward Basic with not an SYS in sight!

By Norman Hart

This restine allows the programmer to nestrict a more's upper in such a way that the liques is pre-christed in, characters for momen, integers for simpless numbers of a mixture of both for postal addresses), the maximum longith of the input is pre-defined between 1 and 38 keystrakes; the tabulation on surveys in pre-defined, the string variable in pre-defined, the string variable.

gui a prodefined becovers I and 3 is province, the Desiders as correct province, the Continues as correct manual is no fragger than two manual to the continues and the continues as the continues as the continues as the continues of the Ching, and only one space of the Ching, and only one space the Ching, and only one space that the continues are continued to the properties of the continues as the properties of the continues as the continues as

> FXX+D-004-21117-004P818T*11 915ANECUP31*1P0#2631,15-1

By keying in shift) s you can instantly never your entire program. If you need to enable use of the length of the string, then the variable

A is the equivalent to LEN(YS).

Do remember after returning, if
you can always redefine YS as fellor

As I have stream sension of the best of th

has a different ASCIII value to enabled (SPACE and would a skelp cases problems if you are the retarned string for exact through data false. A bester sole perhaps would be to crase all reeness to the variable SP (i.e. delete instructions it lines 200, 302, 103, or more simply, delete or it, and line 300 only.

Cursor Controlled Menu

Now for the second contine, a shorter than the first, but every buseful in its own way.

The control of the control o

al in its own may.

The pengram allows the use it any defined part of a mens ing a custom-designed curso down a pre-set vertical y sing the RETURN key makes LN: The length of the string returns of this is achieved by reading the sens (OFFN 1.3) at line 350. Maximum

two TI. The botterestal positioning of the current. and 12: The botterwal start of the rea

in an T2: The horizontal start of the reas resider (line 500), and. CE. The information returned is in

ing return, but perhaps more into the cursor position (variable for the sand to branch out to varia SP or contines in the cost of your p

A+1 GOTO 1900,2000,3

scredity suggest that you type in 15 programs in shown in level 248 to 35 500 is 500, and 500 is 500. Again, asl great care with the center symbols in lines 530, 546, 550, and 560, and you've not happy with the "CHERK's control, then it can be shanged to se symbol you choose. Finally, the best way of getting grips with this contine is to alter the

See Estings on page

Solid Gold

Marke Hallo Mallo Hallo Mello AND SCHOOL SERVICE SER Hello Hello Hello Hello Hello Hello Hello Hello Hello Mikilia Mi





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exister interferen and is a summ for the printer that doesn't have NLO favor the w and was are thinking of changing your support printer because of this, Super Graphic Mr wa





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Ideal for custon passes.

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S. SEPER, COMPACTORS. Una efficience projects comparation behalvings. Lock program neved as a trippe file. I parameter part data beind of gargerines to perfect file. If you see to top indice.

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Relative File Programming

In the last two articles of this series, Routines were explained, which would set up, create used house coep a relative file. Now we go on to a method of using the records that have been created, and displaying them in the most efficient way.

By Eric Romsov

Antibovi method of REGORD Write on Read you might have coped for, the following prayamening refers to those Knutzees by the same Line combex so lines in no confusion. I see executing that in your programs you will probably have two Messa to cityfay options. Messa is made probably to seeching like.

Program Mena 1 Create File 2 Easter File 3 See Director 4 East Program

Both the first two ope you eventually to a secon like Menu which a semething like this:

> 1 East Records 2 Person Records 3 Stanks Records 4 Print Template 5 Change Kryfold 6 Sort Records 7 Sequential List 8 Exit Program

Von night have other ideas!
have prognamend correctly, y
he shit in use the rearise,
should give for setting up a P
Entring RECORDS (no) of
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o rem **** read RDCORDs into 8 8 form*Otoe: disp\$(a)!mid\$ (\$Jpoi (a), field (a)) mexta

SCORD Read regist using

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and of your program. Among the of
the items you might have, Line 10 sho
ted
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and
H dies day(NCyzen*** where or
of PELDs

If you have second to use the PIE Separation method. Read issue Arisy (#bitch I have merchood to), two) this has already been done, yes westd center the Diega subcoation at Lies 4300. New we look at the Diegan Routine. 4300 print "Boccod No." dep," of " 4310 fee a/boc.

day \$(s) 4356 nonlareners

There are a few knes missing leave these spaces because the

issed here that we have not read in the infois sot. The DISP Veris is the current RECORD Number is in the Browne Rentine, RN is Variable you should remember for parts one and two, being the Num PROGRAMMING ME

BASIC 2 owners do not forget to



A voiding the moreies of the private construction of the Centrosofters care private construction on mean training the lideal power of a midar of floodithes free correstience. You have to be a no inchandingial while to a bis more and overlandow, but a background knowledge helps to a background knowledge helps to a flooding to the construction of the publish while paid for the same for most people, a primter in a der manter mostel. This type is wider range of possibilities be anomal type-reliance-beaustern. A

Any Storm in a I

The standard Commodute print communication is performed through the serial port. The is probable of threeter way of theseling data across and most other computer system. The forces parallel printing systems. The difference between the own makes

difference between the over methods lists in the way in which the date is forward for transfer. Imagine a west factory with conveyor belts transfering insus from one plane it monothers, month have consumed for transfering insus from the plane it monothers, month have presented in the plane of the monothers and the plane in the consumeries factory model have perfect our converge to the carrying a single issue of data (a bid, in a passed of factory and to make the plane of the confidence has been seen for the confidence of the con

one effects in that the parallel system is approximately eight times figure than serial. For Commanders owners the choic is finished to the serial system but is a parallel printer in chosen, there are two optional maps in which the prison can be commoned. One is to say

two optional ways in which the prise can be connected. One is to use paradial oable to connect the prise directly no the unit port. It abtensive to be connect so the ser port through a usable lassediase was recombines the bits into a parallal by

scalable for the printer input systems have their strength obtainesses.

The user port parallel con mode special software to see information in a farmer and

of ingpoy space is which the drive a stand-The obvious problem is the come authors will not allow such system to run alongside kailf and the printer can be readered inaccessible. Printer Principles



aping from Commodore branded printers req extra knowledge of printer compatibility By Eric Dayle

The state of the s

Precision Software 5 Park Terrare.

MPS 803 Upgrades Avea Printer Technology: Swinder



BEGINNE



First Steps

Learn how to chat up your peripherals without fear of prejudice By Norman Dayle

The Germ perspectation of anything which is not in an experience. Delivately as compared, Delivately as conjugate, and the conference are all perspectable has been demanded as perspectation. So that the compared association of the compared association of

is always the Prime Minker in always the Prime Minker in member 11 in the Chancellus, some the addresses on Periphent States when a particular occupation of the Chancellus Street 10 Denvilag Street university occupated by Marga Thurcher but it could equally be the prime of the Chancel the Chan

be. Similarly, namber 1 Fer Street in always occupied causatta renorder which may not be called a Commodane be will be a lead and sure review on a 10 or 18-03. Ferror, camber the or 18-03 or 1

exerced for a primer and it to construct space for other than a certifical spaces such as data dishard data, where drives or supertion of the space of the space of the The Rephoton docupies as upaddition. Its Commondatestand starne mambeed from some speakes, this haplened resides at number it. From switching on the pownered beclines are set up with directly communicate with speak develop on the pow-

on may enation directly from the useron is set as the output deriphenal by the program storage intrivals is set to address mamber I, the encoders. These are called the satings, that is the neural h modern for communication. If another

is to be addressed it can in one of own ways deper channel.

Disk drives are selected operation by tagging a ',li the red of the opplying command. When the

h, openation by sugging a 1,3 (co. 8), the second of the equivation case of the equivation case of the equivation of the

h o printer is attach ic cospona but noth e menningful. - Some devices be

IBM PC File Transfer Utility

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YORK ELECTRONIC RESEARCH THE Palengels Control Dept 10, 4 Fastergets, York YOT SAE

Arrigo D.C.C. National States (1992) Conference (1992) Conference

DIY Interface

By Paul Williams



Printer A

By Mick Walpol

Risally, you will be gree
for program tale, a represent
in the meet and and the
New solant the casening your
create and interest far, and falstage belies:

Most like mover card and the races. New select the casester year wish to create and insert far, and follow the single below:

*Option 1 - the acress will clear, reprint the insert mixels, highlight the mach belog morted on on BLAC's and request the caseste caushor. (This biddle is another between 1 and 99). When Bittern is premed the mean will be disabled to as

test the cassette number. (This did be a number between I and 98). It Hitten's present the mean mill injuryed again.

1500. 2 - the notices will clear, in the insum minut, highlight the being worked on in PLACK, and the control of the PLACK and at the control number and the control number than 23.

rectors in length, there is no reverp here.) When the Return is record the meso soil be deployed in the control of the deployed in the control of the control of risk the control of the control of the being worked on in BLACK and not the details for Sole A. (1) to the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the second of the control of the cont

though worked on in BLACK, and treat this disade fair Sole A, (10) as thanesters). When the Betturn has created you will be asked fair the red tiguet, and so as up to the insum of 8 after which the mean thought and an are to be displayed again. 4500 B - repeat the third stap fair B.

is. then 5 - you will be asked if you contend all detail required. Switchings and I fall is OK person to graw will now print out to see and add addard to the receive your the next caseasts.

All you seed to do now is cut in and feld it. NR. Because of a of graphics characters and does not consistent to the program will a like on Commodore printers. It is little modification, should so

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Salast different printers, such as Communication of serial Deliveries, No. 270, Deley printers his sendo



THE FINAL CARTRIDGE retire hardware, combined with smart software, allow you to

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GAME REVIEW

Instant Music

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Lauraning could alse exists as the program would nating the right note, in the right tempo leaving short as iteraturest and move a population and that for looch.



and its come new instrumental II with their strain Marie, park a provincia and get composing. Your chose of abstractic marie in the long sense strain of finance Water from Electronic Arts with it ray and then on the Amings a few potent ages. No water according to the contraction of the contraction of the contraction of the potent ages. No water according to the contraction of an internal contraction of the con-

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asiprint Exercis ANIC operation to the

BASIC operaregular shick peculiar to a system which peculiar to a commands, exposely for the purof controlling a document, and liked to the Commoder serial p The overant will mote on

likked in the Commodore serial pro-The pregnan will work on prister cenforming to the Eg-Sanakad, which is used by sitery type of dot-matrix prison; contras, the large exception to the Commodoreh over, range of prison to the Commodoreh over transport of the MFSOQ; are the commodoreh over the MFSOQ; are the commodoreh over command included in Suchrigator, every franction lemagicable in substigut the commonored are

Of course, since all these fancare controlled by the primer lise your printer will not print do bright for example, then East work others.

Using EastPrint

fach of EmiPrint's commands are recorded by an arcotak is distinguish form from the necessil BASIC womeneds. When using short is a reagram, as other command can other as HasiFren command. The command result other to the only

H PNLQ ON SCINCLE
Will turn Near Latter Quality prin

ce, but will NOT clear the sco Bloweser:

10 SCNCLR *NLQ ON

will olear the screen and then t Letter Quality princips on

command in the RASIC Disset Ma (without a line-number), you ca pacceds the command with a color make the inscriptors accouncemmand as if it were part of programs. For example:

enough to bring you then EastFrint is the

By Mark Everinghou

asiprint

Changing EmilPoint for Other Printers





PRINTERS

Fred Goes Dotty

Dos matrix printers have had it too easy for too king! These three packages from Financial Systems Software will really out them in too you!

By Fred Re

There are a great many graphics of their second that Chi owners can as all the equations of - many of high enables and special traffice. But free well see the job

igh ICON Futtery Bill stand show packages, high with the one particular function. Treating yearself he say or a of these packages is like giving a chalman to a billbook.

Photo Finish

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> es are ficille things at the best of times, so made to the male of your primes, the make of interface soos set all those annoying DHP swebers. There may adulate here, but Phote Friesh makes the in this property of the property of the property of the obstacles by officing several Mandacoff primes.



Star LC-10 Printer



or Ouad sized.

Making Music

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Commodore's ability to synthesize and the all importarole of interrupts

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be Bala of the Internet

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The Actual Program

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of information. At the last of the terrors years have a must Grouply welling year of which keys to great the last keys of C. D. H. of the last keys of t

Technique courses, you will see that you ear gene to: 1.10 to go duran an octavo, on the 1 th 1.10 to go duran an octavo, on the 1 th 1.10 to go duran an octavo, on the 1 th 1.10 to go duran their anything, but any surrounding near might be driven beyond endousance. In 6 th in mage, but can seventheless rope quite mage, but can seventhele reing this can be suppossed to the sex like davan the separativosa turny glacomác, but my fant of Stove Halinge will fell you who

DATA-I

Having entered and run this poor you could then type in: SYS 49151.0.12

and see a perfectly hideeus so elogisty as a result. The point however, that it works, and i prossible to pass parameters to from machine code routines will

if need be, it is possible to put a triang wavefame in rotor one so we couchange our data to read: 100 DATA 169,00,141,04,312,32,35

which would mean a rail of SYS 60152,1 would put a triangle were in voice one, or SYS 60552,3 would put a nawhorch were there, and so on, without the need to POKE 5422,0.POKE 54272,27, or wharever, pour temporement on the standard put improvement on the standard

FELE. . POLE appressed. Use I need lips with it by all senses, but do not expect nitration as a result of design as. For heart is uside to old breach, and use the upsed and power of markets code to do other, more determine though N and power of the name of the control of the determine though N to be the best long for a required of a long. For POLE: General det. I be aboved. Longer than it massive code, yes, but not upsidicately us in some of sensels produced. So, we many yes marking.

PORE Commands to be obeyed. Longer than insulative other, yes, but not upplicately un in streak of number produced. No, we made use insulative code for those parts of a program code for those parts of a program basic, and which among those must be in the use of interrupts. As I said, bed free to play about with possing parameters from a Busic call to a machine code rowline.

to Basic that doesn't r

Every Effecth of a second or a 64 whitese away from whateve doing, and goes off to update revered as if nothing has happen he souther to 6 this sures at \$5.A, at if we can interrupt this room at perform a few housekeep hores of our even then we can con be impression of a melli-taskit computer. That is, one that is capsiif doing ensert has not thing at a list as word by, of course. It well more to sood by, of course. It well more pickly, But, by jubilises we of one pickly, But, by jubilises we of one

over can make this multi-testing for very residual indeed.
It is this inserrapting of interrupt that gives us the ability to prevale anexes; other things, backgroun material combinates the own news Residual combinates and insate programs. Later with the looking how resemblates area usely be mutoo lates up to ten miscate and begon by taking up very fields memory at a

To interrupt the 64 on its way we must remember three golden rules:

Make sare you interrupt the 64 property.

Make sore that your own code works.

Make sore that year own code works.
 Make sore that the 64 goints SEAM in the end.

This may seem obvious, but it's surprising love often, and how easily.

supering how others, and how early, histogram po weep and as incorrect Form of all well used as incorrect to 46. There are two incorrect to 46. There are two incorrect incorrect to the interrept, which condensately is introduced the Handwest incorrect Vertex, or HIV, and those on benealmen Hand Poy. HI we simply VZEK there we'll see that they infrashly contained the sales of 15 and 16 A. and incorrect interface of the 46 brings as no feel and contained on the sales of the sales of the sales of the sales of the profession one about one of the sales of the profession one about one of the sales of the profession one about of the sales of the sales of the profession one about of the sales of our own.

Interest fundament of the five legs to the final location of SEAJI.

Now suppose we want to have the feet performs some others of our own before it gent to SEAJI, and that on earn order some in location SEGOU. Occurrence place, being the same of the same of

YOUR COMMODORE isty

is not and a de to POLLE into the
real locations mentioned earlier, and
rather the HIV we could just.

OKE 788,00 POKE 788,192

Hawever, due to the speed of the

However, due to the speed of the 64 this will commisses cause a 'trash', where the machine just gives up in depart and will have nothing to do with yea. Beautr then to have a little remisse in machine code which we can call to have the first to do not all to have the first to do do location, demonstrate as which we want to do.

as the time. The following program will load some code into the tap and of receivery and enable us to get from one to the other. 10 FOR 1+0 TO 21 15 READ A 20 FORE 12992+1, A

30 NEXT EEND 180 DATA 100,00,141,20,81,160,192,141 21,83,40 181 DATA 100,49,141,20,81,160,234,141 21,83,40

21,83,69

Type in this programs, but don't run it yet? We have no code in SC00 yet, so add the following to the programs.

O FOR IND TO TREAD A: FORE 9133-1; A: NEXT 1 EIND 50 DATA 169,41;141;80,04,70;49,234 Nothing too stantling jet, because if this docs is put a bear, into the rea left hand corner of the score.

To get our heart up there we man: \$15:5292 and so turn intentupes back to normal again we'll have to:

SY 53083

This will work soldour the machine crashing! Now, with the HIV disented, our little heart will nemain on serven. Set the BITV back to normal again, and

Set the mile back to bornia again, and the heart can be cheared at ease.

However, we want to do something a singe more impressive than that, so we'll be looking at using some background music to play our songs for us next time. See you then!

ive lixings on page 74.

AME REVIEW

Pandora



The state of the s

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haves comes at the end when the available. Does photographic again and effects which wait on a market alk fours. For the proposition of the challenges have required to the challenges have recovered and the Sachlaig is suppress. Summ 1/X could be the state before to and specifically analysis. Summ 1/X could be the

see it is suggested to cannot with NOU. We alleded to extract so with shadows care the rethe the the six a starting of patterns. Marine, so this
to this the starting of patterns. Marine, so the
programming system of option
meren.

The oldring servers in the lot
hinds.

SCREEN F/X

HIT ANY KEY TO CONTINUE

May I Interrupt?

mes eren't the only programs that use interrupts utilities can also butt in

About stores in a design in a quantitude riffers, these proposed contraction of their stores proposed contraction of their stores are concernant, and the stores are contracted as the stores are concerned as the store are concerned as the stores are contracted as the stores are contracted as the stores are contracted as the stores are concerned as the stores are contracted as the s

which services the key redefine a function for facilities.

For sending occurrents to t printer or the serves via the functikeys as interrupt is used as that keys between the instantly as any of

Extending Basic
The CHRGIT routing t
characters from the input builte
at a time, therein a command
and then hands over to the I

exemples used the constant in complete as a rever is front. The reader then hands that is the work to the control of the contr

INC \$7A BNE \$8009 INC \$78 LIAA \$8300 CMP # \$5A BCS \$008A CMP \$30 BEQ \$6013 \$502

but the rest of the soutine must I subble from our medged routine \$4000.

The commands unered on the faunt heys are hidden under the Basic R./ Lo. save. on. pragramming apa Tamoelore cach command can be characters. Long. If the redel fauction is not required it need be leaded. Another code reusine.

be loaded. Another code reusine of these he stored in \$0000 because it interrupt rountine in booted fir \$0100. After the interrupt is set the yout writches cet Basic ready to servic keyposa. If a function key is pres-

May I Interrupt?



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A disassembler residing in company has 18 be released in the company has 18 be of any real out. If the program under serving and the disassembler incubing sides, one will oversein the other.

Another consolin when a faith of another incubing the other incubing another the other incubing another than the consoling the other incubing another in the disassemblers can open with this and a relocatable loading command in renorder to not if the

with this and a relocatable leading command is required to pell improgram item a different part of receiver. The problem with such a method is that the memory locations are changed to those relating to the new location.

A cleasuambler which works effect

If one even note with file which are served as sequential or relative files. This version of the heart file is a second of the desired of a supplication of

don't think be's noticed yet!

The Functions

The ranin requirements of a classomether is to be able to select the on Citik and see it so a generoscole.

dissourabler is to be able to effect a file on clock and see it as a monomotic code or as an ASCII d'amp. Diskassembler allows this and more. For a nermal dissourable solest a name and the mendar will open the file ready for your next command.

The commands available shows in Table 1.70 deliberately the commands simple to that structure of the preparat sea statistic. In factor issues or commands will be added when commands will be added when the commands will be added when Distanceables. Software that it is the same provided and the common tentum (Table 3 deseases) from the common tentum to the common tentum to the host pergram.

Table 1 — Diskassembler rememe 5 display directory L'ifdenanc' select a propram disassembly D disassemble code

The directory command, 5, straightforward in its one. Type 3t and press retain and the curriculation will be printed direct to screen so that a program name of he selected.

L'Éloname" will shore the relevant

The max love lyon of the first before the first between the first before t

value is taken from Socat realizated by searchin table. Since mismory sav are not required the tabfor all code values. To socred in a special way counting through to the required byte. The smallagems to the methouthe Basic ROM in 11 searching for a layour mismorius word is not ASCII values excess.

ASCIII values except for the last cheaseier which in the ASCII value plass Bio. This means that the X register Booking of the bloody the table, each character in coastlend to see if the see vir be in set As Bas is also the sign at a means that a BFL command per sits and continue reading. If a character has a set reverth let in miscure an apartie value and the X capture is increased by one, compared these other continues the warsh or these other continues the warsh or

returns to the printed baselies assembly to the roles directly by a smaller which forced by a smaller which followed by a smaller which follower here many their are smaller with a principal state to the same of the smallers are printed that to the smallers are proposed to the smallers are printed to the smallers are printed to the smallers are printed to small to the smallers are as a beginning for an AMCII and content over the smallers are as substitute for an AMCII and content over the smallers are the smalle

Eas and prices the ASCIII value. If this value is a control code which would during the display, a full-not priced instead.

The second column is created by a routise which converts all code values to an equivalent ASCII value which converts which represents the chancour that



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come and flows are a few apins problems here as well.

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as the original and asposes who origins the co
of Fight simulation and whose thready will find

and have a fair old challenge on their hands.

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have become more and rever complete. For those pears term, a CAD system is a tool which can be used to prestanding distributed distribute abusings of a proposted age, product few computer adarway fits to be taken one stap further, decign can then be deplayed as a 3D object and rotate

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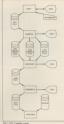


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railing logs to contend with. Nerves of steel required
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time - not forgating you knowly got all the time in
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loom helind will soon be upon you.



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Hear cheare or aspectates would not be quite a all, a game which seems easy to master, but busically l'Arreps you going back for that elemal one most of sheer fruerration. Well, that's all folks, after all ploym...

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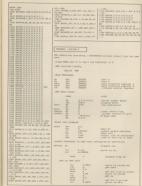
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